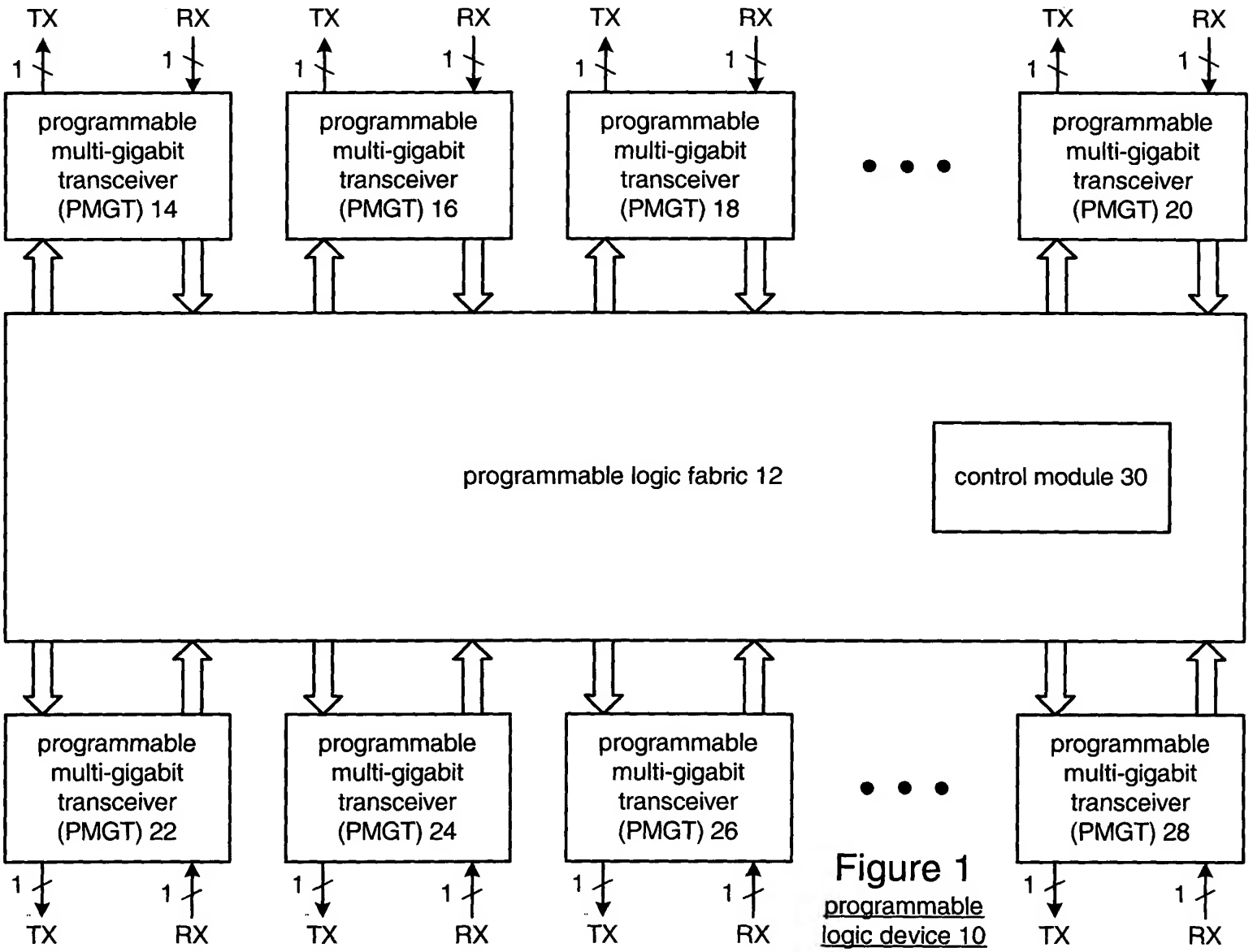

Figure 1
programmable logic device 10

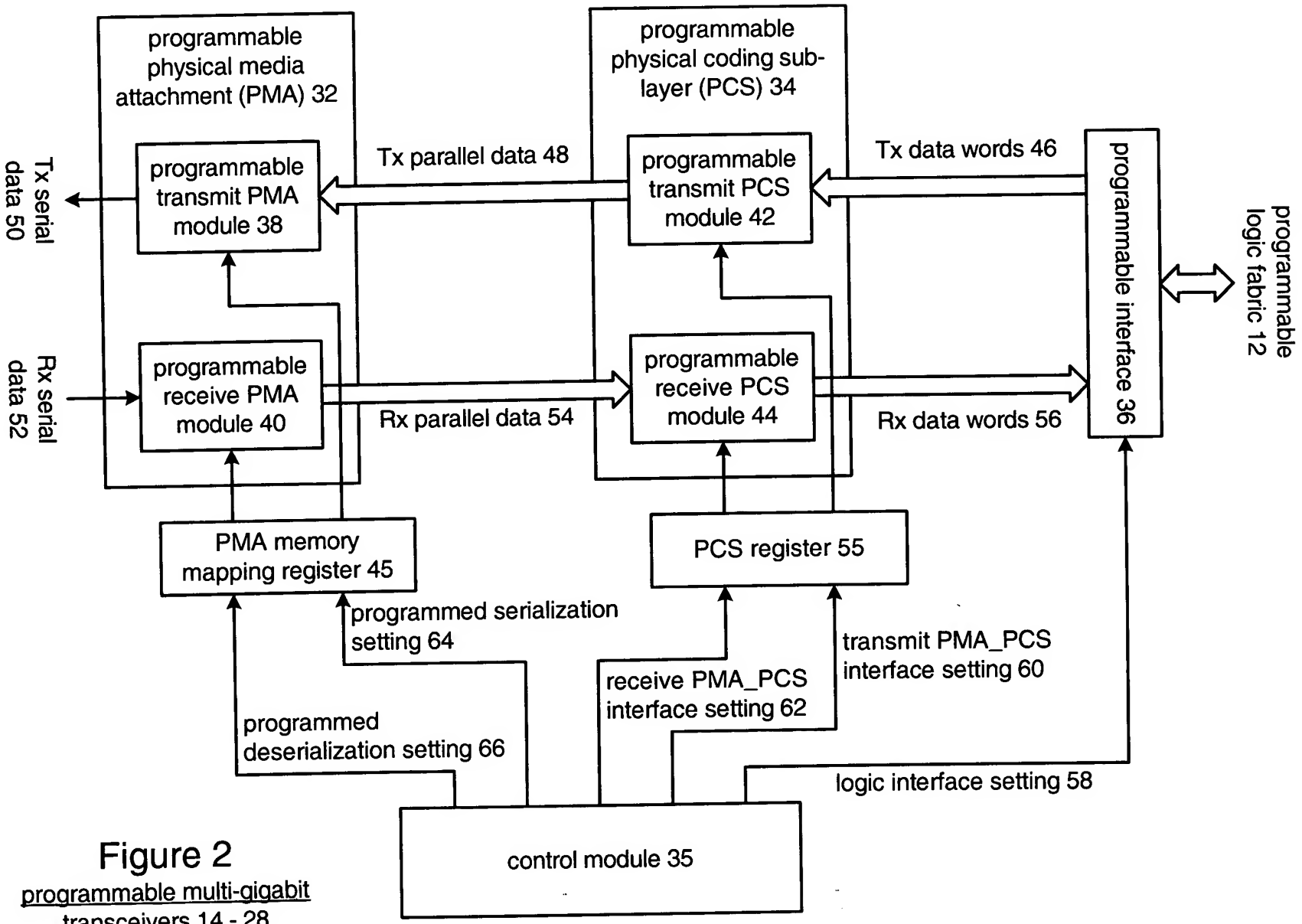

Figure 2

programmable multi-gigabit transceivers 14 - 28

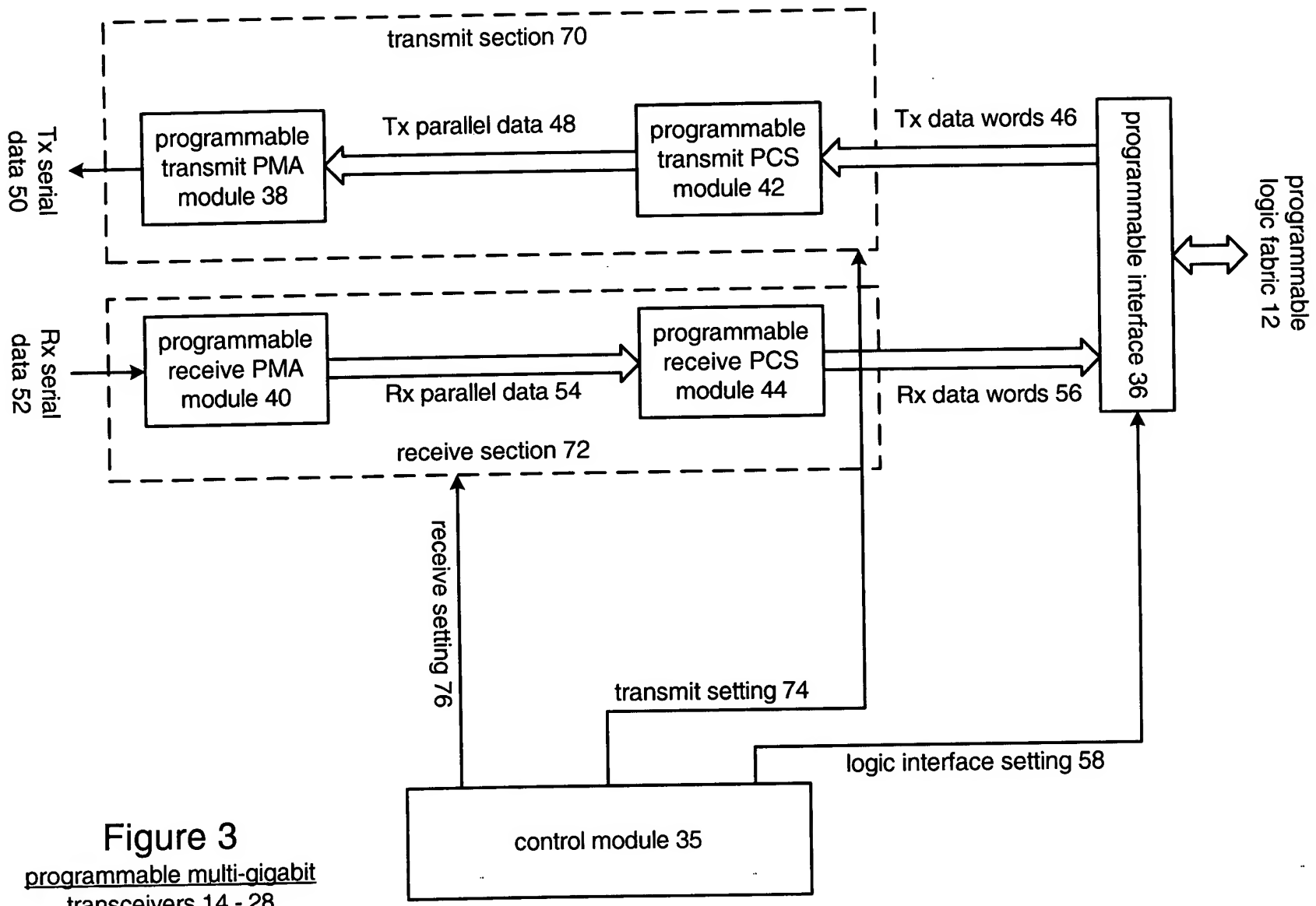

Figure 3
programmable multi-gigabit transceivers 14 - 28

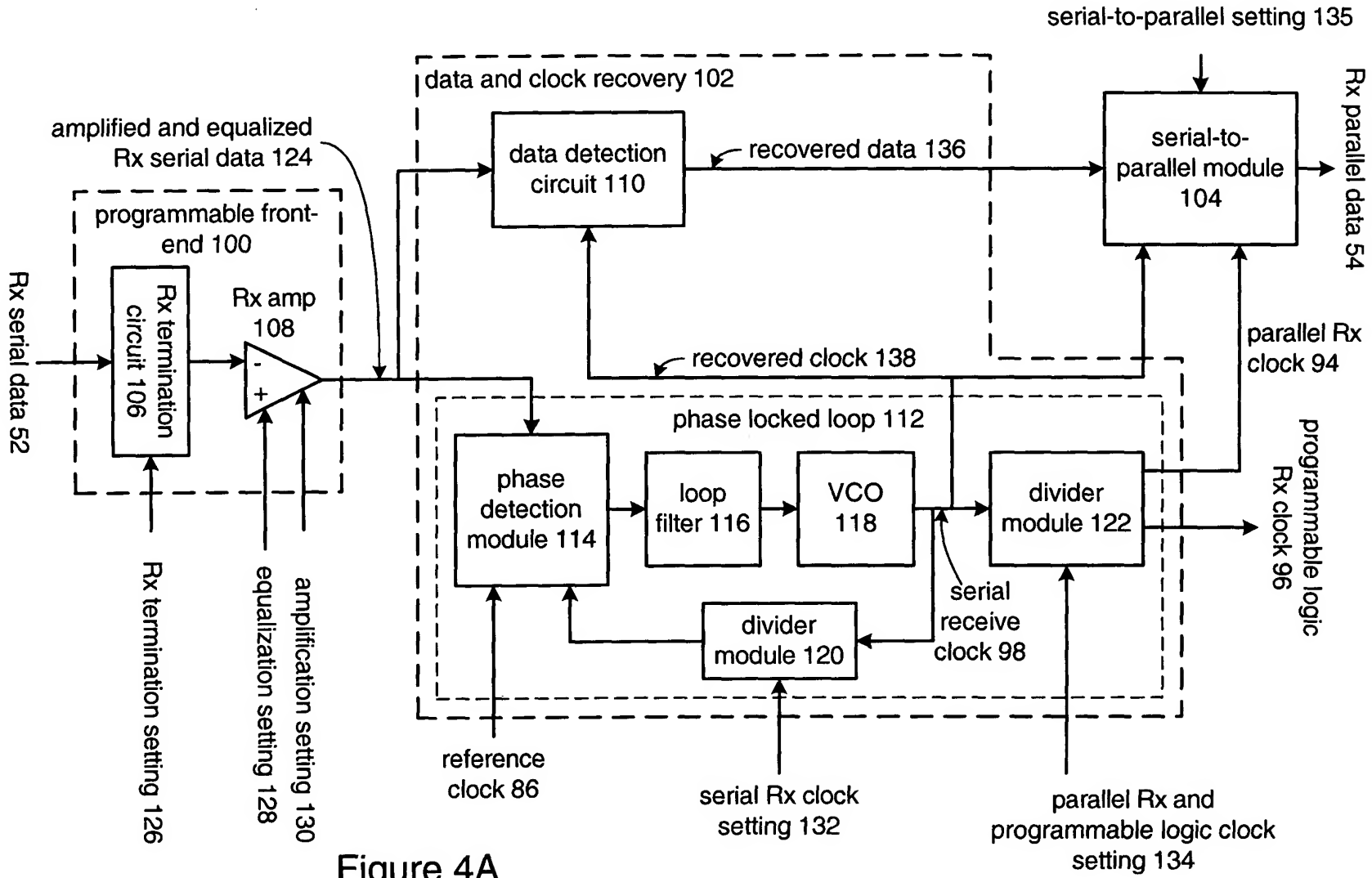

Figure 4A

programmable receive PMA module 40

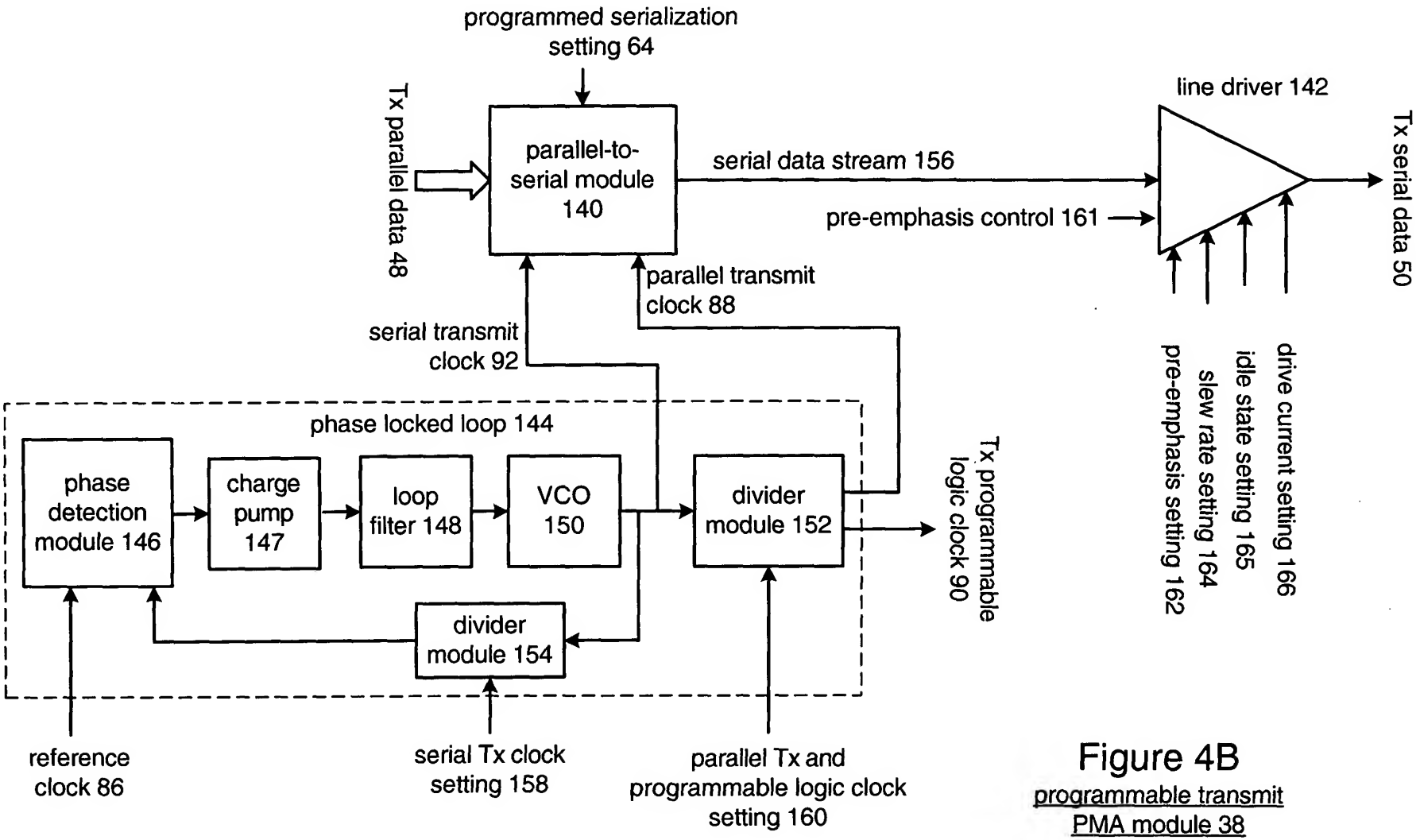

Figure 4B
programmable transmit PMA module 38

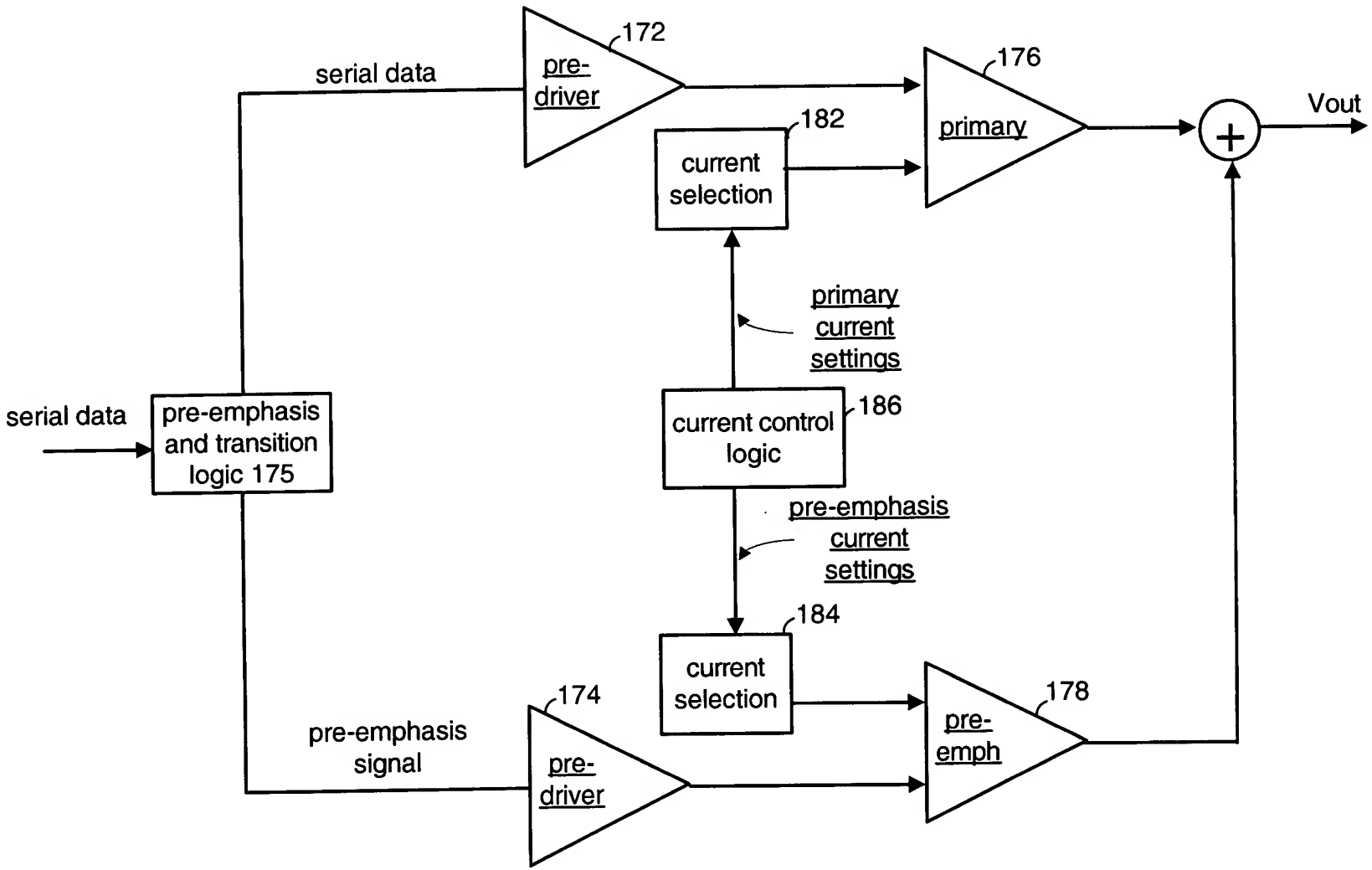

Figure 5 Tx line driver 170

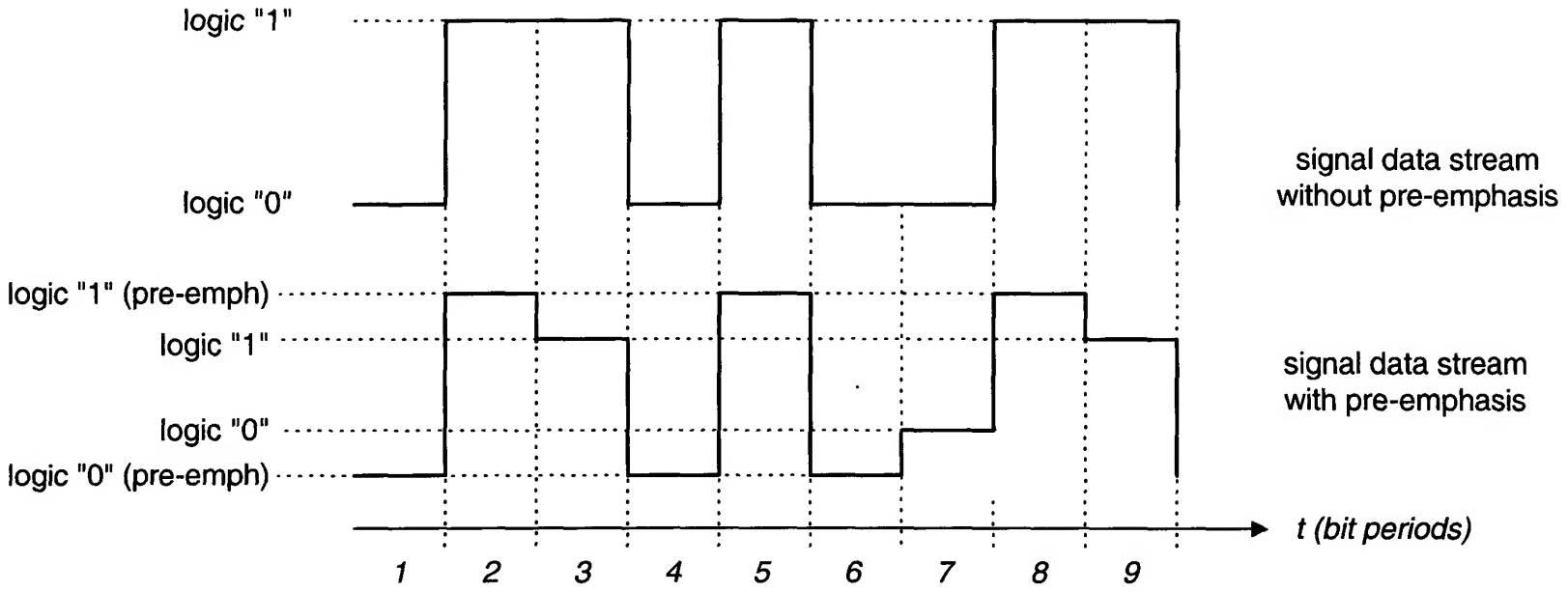

Figure 6 signal diagrams

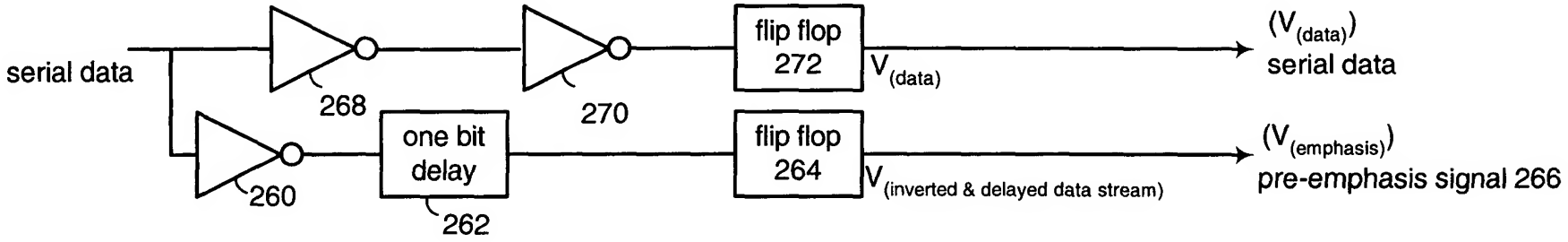

Figure 9 **pre-emphasis and transition logic 175**

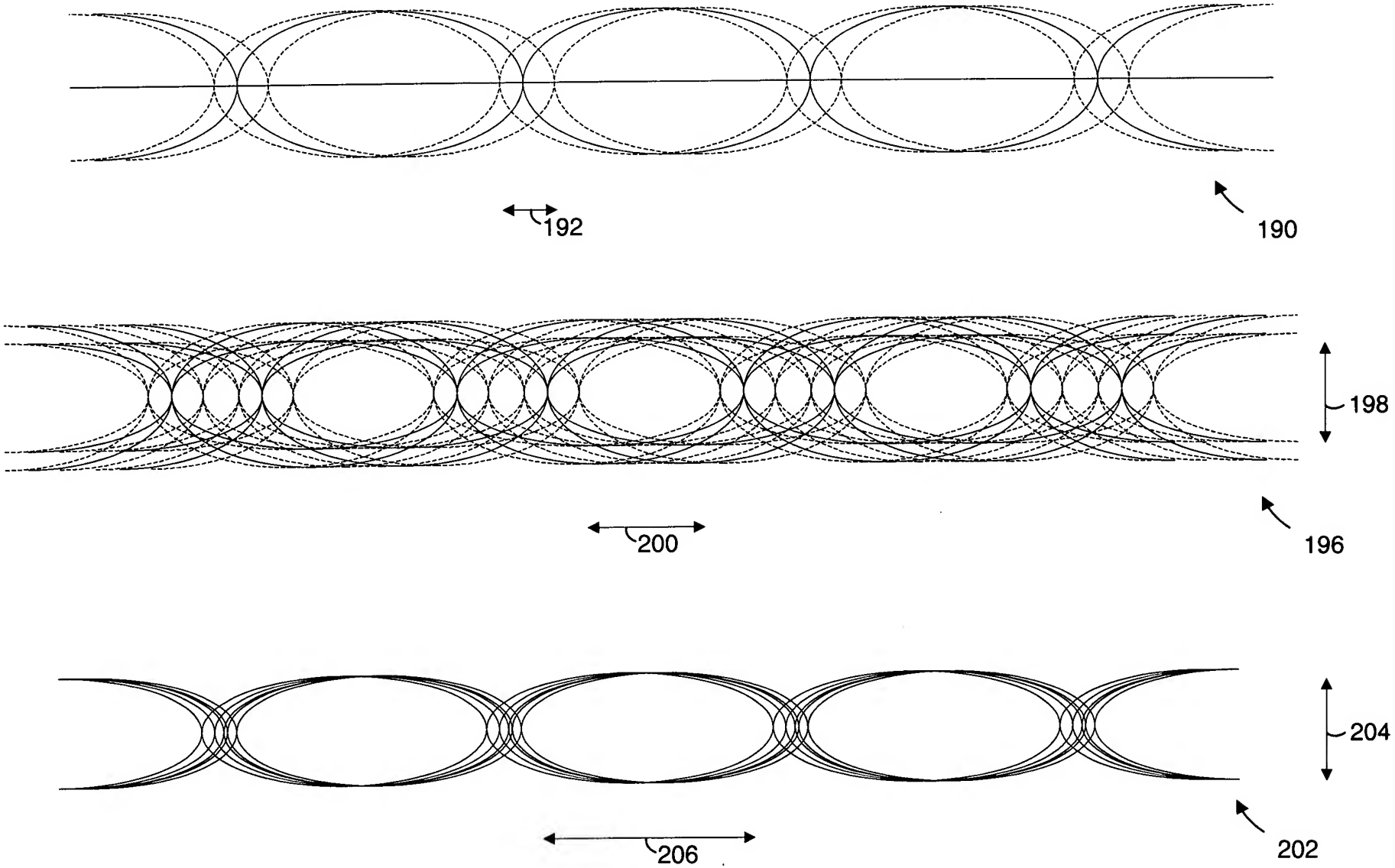

Figure 7 "eye pattern"

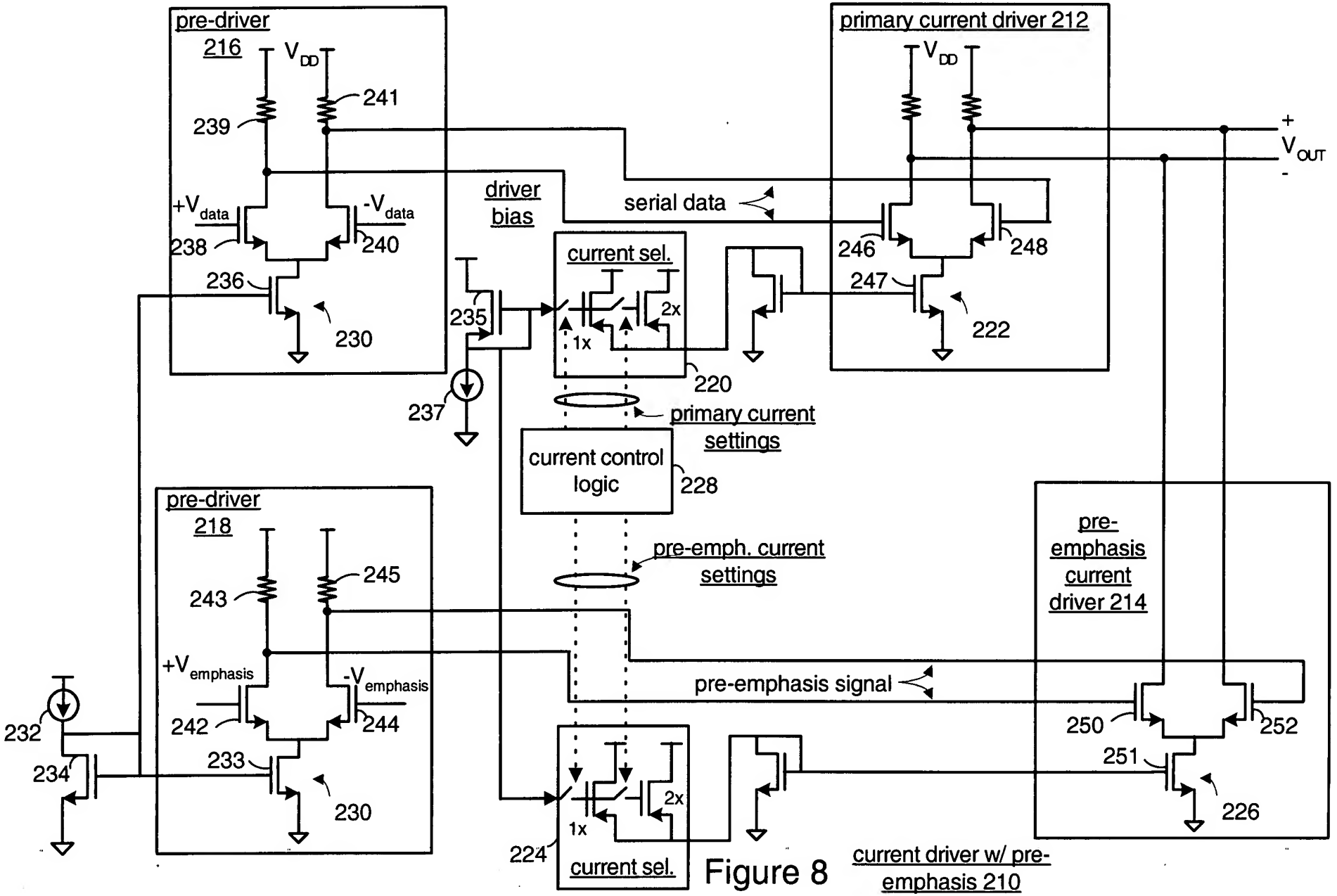

Figure 8 current driver w/ pre-emphasis 210

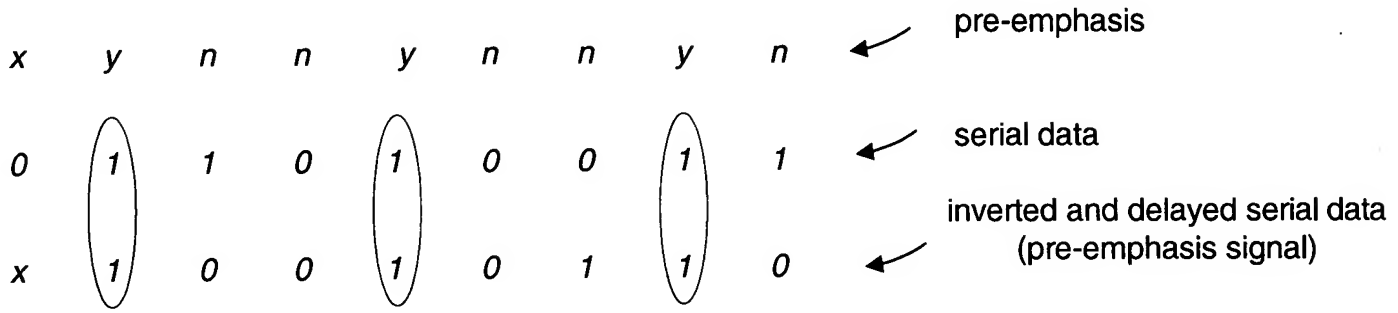

Figure 10A truth table for transitions to logic one

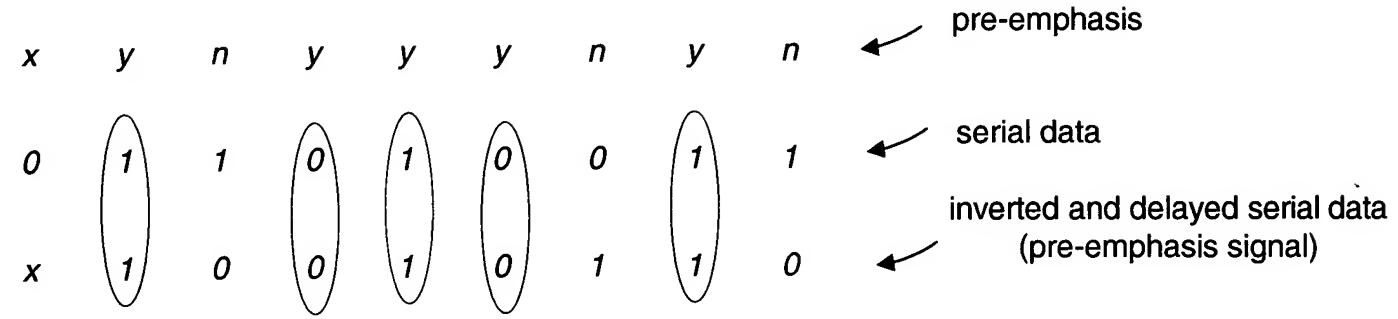

Figure 10B truth table for all transitions

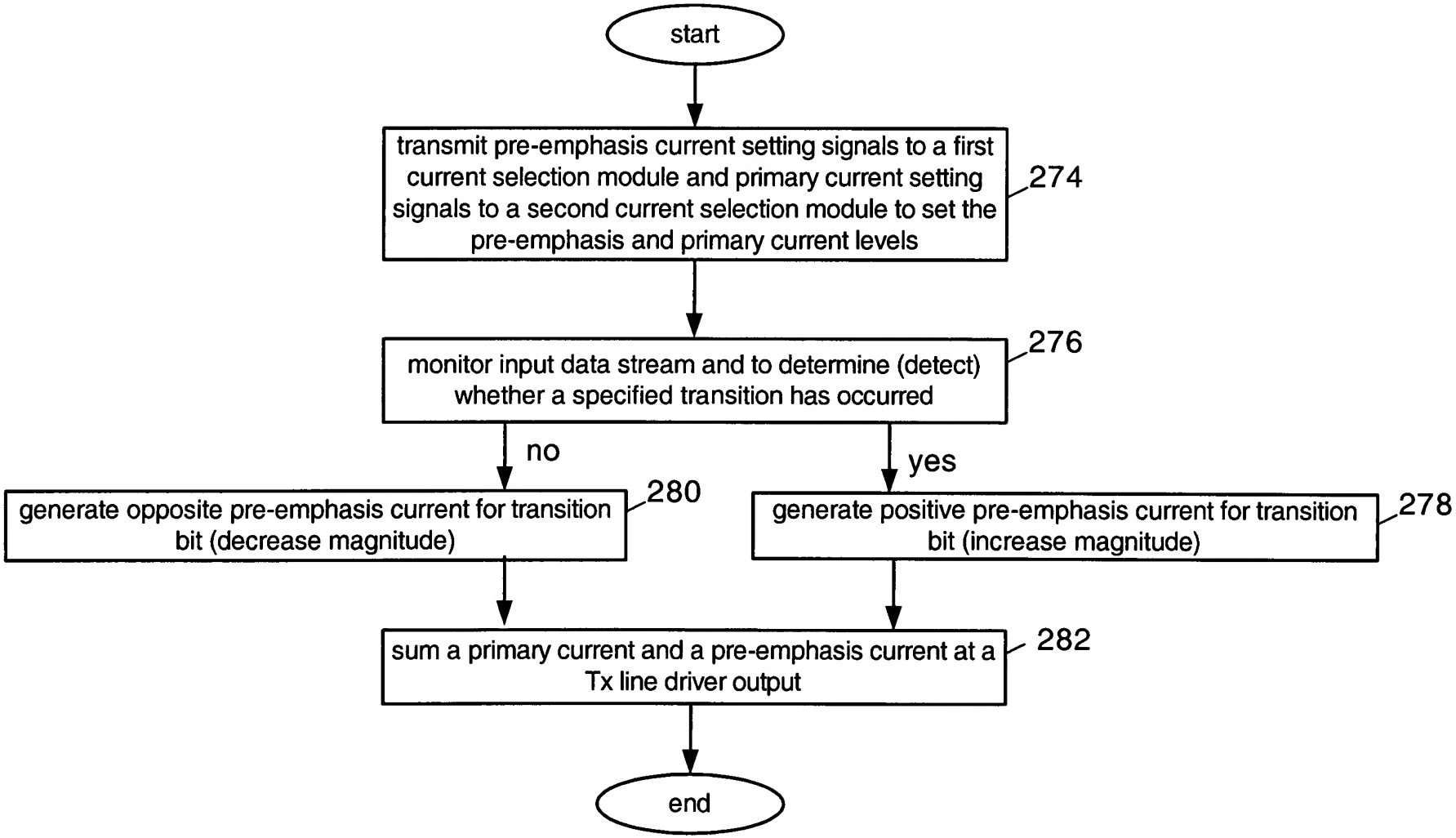

Figure 11 method for generating pre-emphasis